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Certified Software Development Professional (CSDP)

Course Duration: 2 days

Overview: The overriding objective of the CSDP Assessment Course is to provide students with a detailed view of their knowledge relative to that which will be required to pass the CSDP Certification Exam.

Outline:

Lesson 1 - Software Requirements
Requirements Process
Requirements Elicitation
Requirements Analysis
Requirements Specification
Practical Considerations

Lesson 2 - Software Design
Design Fundamentals
Key Design Issues
Software Structure and Architecture
Design Quality Analysis and Evaluation
Design Notations, Strategies and Methods

Lesson 3 - Software Construction and Methods
Construction Fundamentals
Managing Construction
Practical Considerations
Construction Technologies
Construction Tools Software Modeling
- Types of Models
- Analysis
- Development Methods

Lesson 4 - Software Testing
Software Testing Fundamentals
Test Levels
Test Techniques
Human-Computer Interface (HCI)
Test-Related Measures
- Test Process

Lesson 5 - Software Maintenance and Configuration Management
Software Maintenance Fundamentals Key Issues in Software Maintenance

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Maintenance Process
Techniques for Maintenance
Management of the Configuration Process
Software Configuration Identification
Software Configuration Control
Software Configuration Status Accounting
Software Release Management and Delivery
Software Configuration Management Tools

Lesson 6 - Software Engineering Management, Professional Practices and Economics
Initiation and Scope Definition
Software Project Planning
Software Project Enactment
Review and Evaluation
Software Engineering Measurement
Software Management Tools
- Professionalism
- Code of Ethics
- Group Dynamics and Psychology
- Communication Skills
- Economic Fundamentals
- Not-for-Profit Decision-Making
- Present Economy
- Estimation, Risk and Uncertainty
- Multiple Attribute Decisions

Lesson 7 - Software Engineering Process and Quality
Process Implementation and Change
Process Definition
Process Assessment
Measurement
Software Process Tools
- Software Quality Fundamentals
- Software Quality Management Process
- Software Quality Practical Considerations

Lesson 8 - Foundations
Computing Foundations
Mathematical Foundations
Engineering Foundations

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